Panasonic
Broadcast Systems

MII
AU-63H/AU-62H
MII Studio Player

AU-63H Studio Player with AT

ENHANCED H series

AU-62H Studio Player

ENHANCED series

The EnHanced Series is the result of an evolutionary refinement in MII products picture quality and cost performance.

The AU-63H/62H Studio Players are the perfect editing or playback source.

The new built-in 3D Digital Field TBC improves picture quality while its freeze-still function provides noiseless stills.

Equipped with Auto-Tracking (AT), the AU-63H provides quick-motion playback.

The result is true EnHanced quality video production.

Excellent Picture Quality

The MII analog component and advanced CTCM system with amorphous video heads used in the AU-63H/62H helps assure superb playback quality from metal-particle cassettes recorded in the MII format.

90 Minutes of Playback

The standard-sized ½″ metal tape cassettes permit more than 90 minutes of playback. A small 20 minute cassette can also be used without an adaptor. Footage can be edited and broadcast directly from ENG tapes without dubbing.

4-Channel Audio

Two FM audio tracks (CH3/CH4) and two longitudinal tracks (CH1/CH2) enable audio playback on four channels with independent level adjustment. VU meters facilitate audio level monitoring.

Internal Time Code Reader (VITC/LTC/UB)

The AU-63H/62H features an internal SMPTE time code reader for a dedicated time code track. It will read SMPTE time code previously recorded on tape, switching between vertical interval and longitudinal data, as determined by the tape speed. User bit data can be retrieved independently from either VITC or LTC.

Built-in 3D Digital Field TBC

The AU-63H/62H are equipped with an EnHanced performance Time-Base Corrector (TBC) boasting a correction range of one field (262.5 H) compared with 32 H for conventional TBCs. The VTR continuously retains information for one field in memory. This data is used for 3-dimensional processing, thereby providing excellent dropout compensation. Coupled with component-signal processing, the AU-63H/62H provides reliable, stable high-quality pictures.

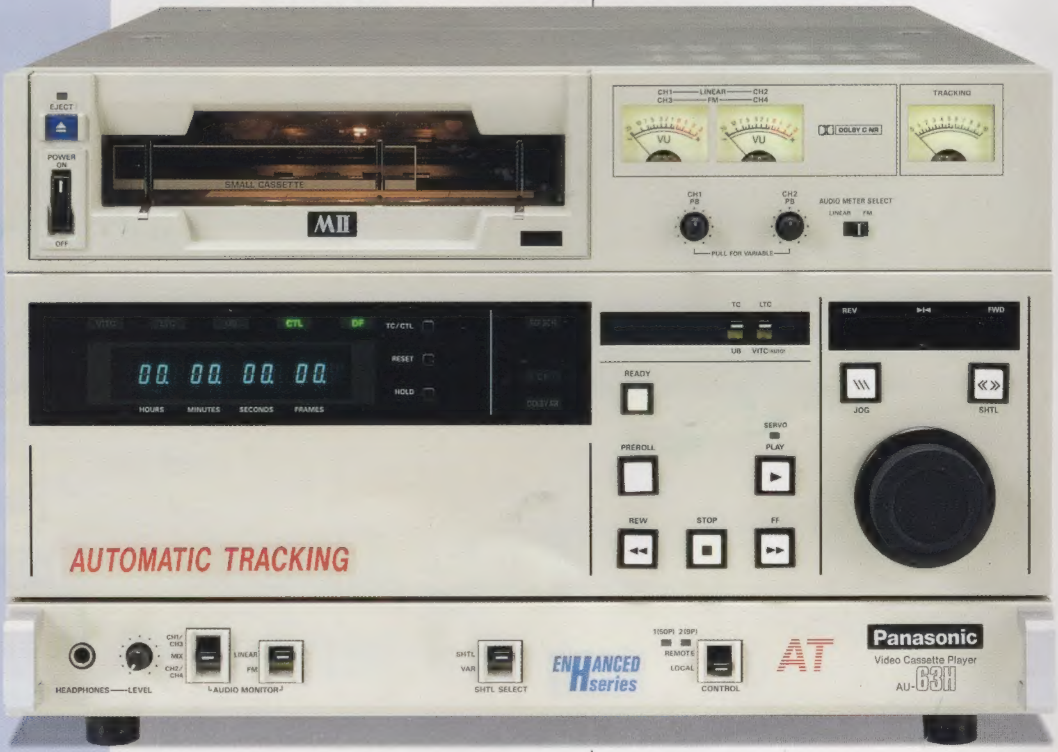
Digital Freeze Still

When the VTR is switched to STOP mode, the video field immediately prior to the mode change is stored in digital memory for output. Thus, even the AU-62H is able to offer noiseless still pictures without an auto-tracking function. Editing and broadcasting operations are more flexible, and monitoring the picture during editing is easier.

Noiseless Slow and Still with AT™ (AU-63H)

AT™ (Auto-Tracking) allows noiseless broadcast-quality playback from −1× to +2× normal speed, plus instant starts from still frames in variable (VAR) mode, making the AU-63H ideal for broadcast applications.

Auto-tracking playback in VAR mode



Variable Memory Playback (AU-63H)

Changes in tape speed and direction can be memorized on models incorporating variable memory control functions. These include the AU-65H and editing controllers such as the AU-A950. Designating the AU-63H as source, variable memory editing is possible during slow and reverse playback in the Variable (AT) mode at −1× to +2× normal speed.

Program Play (AU-63H)

Using the variable (AT) mode, playback speed can be adjusted from 80% to 120% in 0.1% steps without compromising picture quality, allowing easier time compression or expansion for on-air broadcasting or production of commercials.

Color Framing

When playing back tapes which contain a color framing pulse, the AU-63H/62H will control color framing in a 4-field sequence to prevent H-shift at edit points and deliver a clear picture.

High-Speed Search/Jog

The AU-63H/62H provides high-speed picture search, up to 32 times normal speed, in both forward and reverse (±32×). The jog mode's quick response permits accurate, convenient location of editing points.

Dolby* C Noise Reduction

Dolby* C noise reduction circuitry provides superior audio signal-to-noise performance on the longitudinal tracks (CH1/CH2).

16:9 Wide Vision Compatibility

The AU-63H/62H is compatible with the NTSC 525 16:9 Wide Vision System. Equipped with S1-Video (4-pin) output, it permits automatic detection of the Wide Vision ID signal. With its advanced design, the AU-63H/62H is fully equipped for the next generation in TV.

Y/C (S1-Video) Out Connector

The S1-Video (4-pin) connector allows playback of the NTSC 525 16:9 Wide Vision signal. In normal mode (4:3), the connector serves as a conventional S-Video output terminal, allowing connection of various equipment for high-quality editing and dubbing.

On-Screen Set Up Menu

During initial set up of the AU-63H/62H, each item to be set is displayed in an on-screen menu, and the search dial is used to make settings. This helps ensure quick and easy operation with a minimal of errors.

Digital Hour Meter

The AU-63H/62H self-stores its accumulated running time and lets you display it on the monitor when desired, for easy tracking of maintenance cycles.

Tape Speed Override

For synchronization, TSO permits manual adjustment of playback speed differences between the AU-63H and a second VTR in ranges of ±6.25% or ±12.25%.

RS-422A Serial Interface

The AU-63H/62H is equipped with a serial 9-pin remote interface. This RS-422A serial interface is fully compatible with existing broadcast serial control equipment.

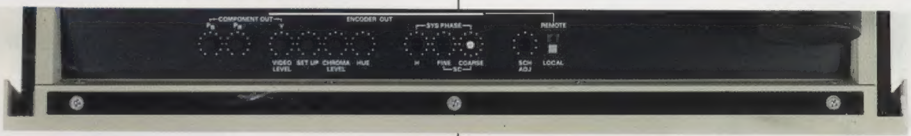
Enhanced Superimpose

The time code alphanumerics, the operation mode and tape speed can be superimposed on the screen.

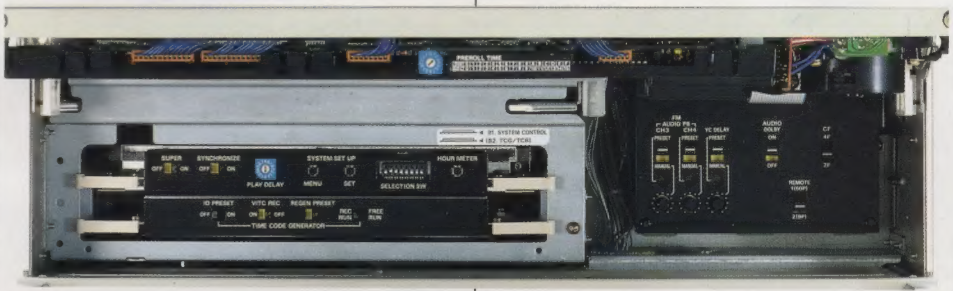
Additional Features

- Optional CCIR601 output (digital component video signal) capability (AU-MK26)
- Encoder remote control by the optional AU-ER65B
- 8-digit FL display
- 19″ rack-mount capability using optional Adaptor, AU-M60 requires only 6 vertical rack units.

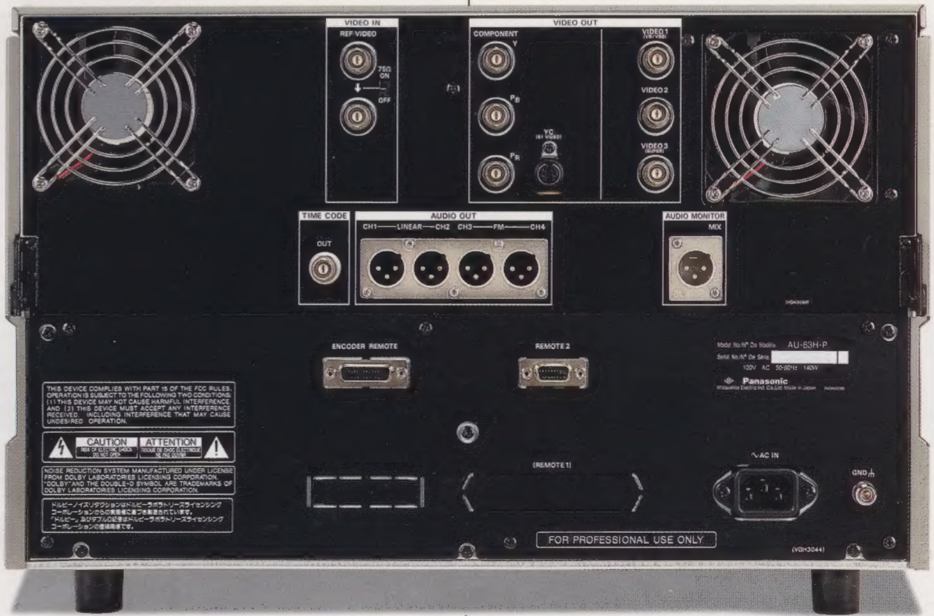
AU-63H/62H Front pull-out drawer



AU-63H/62H interior switch panel



AU-63H/62H rear panel



Specifications

General

Power Supply:	100~120 V AC, 50/60 Hz tolerance ±10%
Power Consumption:	140 W
Recording System:	4 rotating heads; 2-track helical scanning
Tape Speed:	67.693 mm/sec.
Tape:	½″ Metal Particle (MP) Tape
Playback Time:	90 minutes with AU-M90L
Search Speed:	Shuttle; Still~±32× VAR/Jog; −1×~+2× with Auto Tracking
FF/REW Time:	Less than 3 minuts with AU-M60L
Operating Temperature:	41°F~104°F (5°C~40°C)
Operating Humidity:	Less than 80%
Dimensions (W×H×D):	17½″×10 7/16″×23⅝″
Weight:	70.5 lbs (32 kg)

Video

Television Format:	NTSC; 525 lines, 60 fields
Modulation System:	Y; Frequency modulation C; Time compressed multiplexing (P_B, P_R)
Bandwidth:	
Componet Y;	30 Hz~4.5 MHz +1.0/−4.0 dB
C (P_B, P_R);	30 Hz~1.5 MHz +0.5/−3.0 dB
S/N Ratio:	
Component Y;	Better than 49 dB
Composite Y;	Better than 47 dB
C (AM, PM):	Better than 52 dB
Y/C Delay:	Less than 20 ns
K Factor:	Less than 2%
Differential Gain:	Less than 3%
Differential Phase:	Less than 3°
Linearity:	Less than 3% (Component)

Audio

Linear (CH1/CH2)	
Frequency Response:	50~15,000 Hz +2.0 dB/−3.0 dB
S/N Ratio: (at 3% distortion)	Better than 56 dB (Dolby NR Off) Better than 74 dB (Dolby NR On)
Distortion:	Less than 1% at 1 kHz standard
Wow and Flutter:	Less than 0.1% rms
FM (CH3/CH4)	
Frequency Response:	20~20,000 Hz +1.0/−2.0 dB
Dynamic Range:	More than 85 dB (A WTD.)
Distortion:	Less than 0.5% at 1 kHz standard input level
Cross Talk:	Less than −65 dB (1 kHz)

Video Input

REF VIDEO IN:	BNC×2 Loop through with 75Ω On/Off 1.0 Vp-p±0.3 Vp-p

Video Output

VIDEO OUT:	VIDEO OUT 1 (BNC) Composite video; 1.0 Vp-p, 75Ω, sync negative Non-Composite; 0.174 Vp-p, 75Ω VIDEO OUT 2 (BNC) Composite video; 1.0 Vp-p, 75Ω, sync negative VIDEO OUT 3 (BNC) Composite video; 1.0 Vp-p, 75Ω, sync negative with or without character insertion
YC (S1-VIDEO) OUT:	4P×1 Y; 1.0 Vp-p, 75Ω C; 0.286 Vp-p, 75Ω (Burst Level)
COMPONENT OUT:	BNC×3 (Y; 1.0 Vp-p, 75Ω) P_B; 0.525 Vp-p, 75Ω P_R; 0.525 Vp-p, 75Ω (Condition: 75% color bar, with 0% set up)

Audio Output

AUDIO OUT	XLR 3P×4 CH1/CH2 (Linear) CH3/CH4 (FM) −20/0/+4 dBu switchable low-impedance balanced
TIME CODE OUT:	BNC×1 2.2 Vp-p, low-impedance unbalanced
MONITOR OUT:	XLR 3P×1 (MIX) 0 dBu low-impedance balanced
HEADPHONE OUT:	¼″ phone stereo jack −∞~−20 dBu (variable) 8Ω

*0 dBu=0.775 V

"Dolby" and the double-D symbol are registered trademarks of Dolby Laboratories Licensing Corporation.

Weights and dimensions shown are approximate.

Specifications subject to change without notice.

This product may be subject to export control regulations.

Panasonic
Broadcast & Television Systems

Executive Office: One Panasonic Way, Secaucus, NJ 07094

For further information on our complete line of Broadcast and Television Systems products, please call 1-(800)-524-0864 for your nearest Panasonic regional sales office.

Panasonic Company Western Group, Hawaii Region
99-859 Iwaiwa St., P.O. Box 774, Honolulu, HI 96808-0774 (808) 488-7779
Matsushita Electric of Canada Limited
5770 Ambler Drive, Mississauga, Ontario L4W 2T3 (416) 624-5010
Panasonic Sales Company
Division of Matsushita Electric of Puerto Rico Inc.
San Gabriel Industrial Park, 65th Infantry Ave., Km. 9.5,
Carolina, PR 00630 (809) 750-4300
Matsushita Electric Industrial Co., Ltd.
Audio & Video Systems Division
2-15 Matsuba-cho Kadoma, Osaka, Japan 571
Tel: 06-901-1161 Fax: 06-908-5969

CTAU63H/62H-P-E

VSD6120 [03132.1] (30K) 30K032ADFP-1 Printed in Japan